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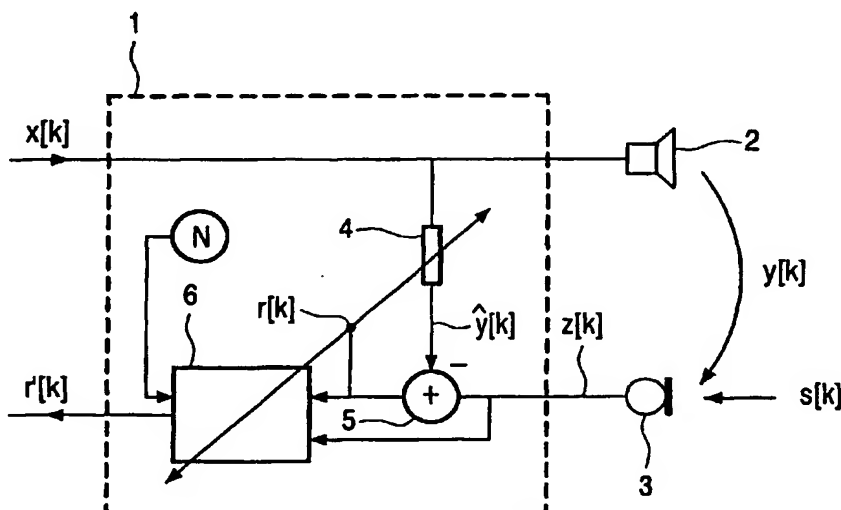
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(54) Title: NON STATIONARY ECHO CANCELLER



(57) Abstract: An echo canceller (1) is described, which has dedicated non stationary echo cancelling properties. The non stationary echo could be estimated directly, or indirectly by subtracting the stationary echo determined by a stationary noise estimator. The echo canceller may comprise an adaptive filter (4) and a residual echo processor (6) coupled to the adaptive filter, which residual echo processor is equipped with the non stationary echo canceller. Such a non stationary echo canceller is proposed in order to prevent the stationary component in the echo estimate, especially in the residual echo from continuously distorting near end speech. This improves echo canceller performance in terms of speech quality and speech intelligibility, which is particularly important in cases of single talk near end speech, as opposed to double talk.

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7      H04M9/08		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7      H04M    H04B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, INSPEC, COMPENDEX, PAJ, IBM-TDB, WPI Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 23755 A (DEISHER MICHAEL E ;INTEL CORP (US)) 21 March 2002 (2002-03-21) figures 1-3 page 1, line 5 - line 30 page 2, line 16 -page 4, line 21 page 8, line 5 -page 9, line 18	1,2
Y	— -/--	3-9
<div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.         </div> <div> <input checked="" type="checkbox"/> Patent family members are listed in annex.         </div> </div>		
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Date of the actual completion of the international search  <div style="text-align: center; font-size: 1.2em;">22 September 2003</div>		Date of mailing of the international search report  <div style="text-align: center; font-size: 1.2em;">09/10/2003</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  <div style="text-align: center; font-size: 1.2em;">Gavin Alarcon, O</div>

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